

WHAT IS CLAIMED IS:

1. A measuring device for immunochromatography test piece comprising an irradiation optical system for irradiating measurement light onto an immunochromatography test piece, and a detection optical system for detecting reflected light from the immunochromatography test piece under irradiation with the measurement light,

wherein said irradiation optical system comprises:

a semiconductor light emitting element;

a beam shaping member for shaping light from the semiconductor light emitting element, into a beam of a beam section extending in a direction substantially parallel to a colored line formed on the immunochromatography test piece;

a lens for focusing the beam from the beam shaping member on the immunochromatography test piece;

a first baffle portion of tubular shape for removing stray light, which is disposed between the semiconductor light emitting element and the beam shaping member;

a second baffle portion of tubular shape for removing stray light, which is disposed between

the beam shaping member and the lens; and

a third baffle portion of tubular shape for removing stray light, which is disposed between the lens and the immunochromatography test piece.

5 2. The measuring device for
immunochromatography test piece according to
Claim 1, wherein the irradiation optical system
further comprises a tubular space portion with a
diameter larger than that of the first baffle
10 portion, which is disposed between the first
baffle portion and the beam shaping member.

 3. The measuring device for
immunochromatography test piece according to
Claim 1, wherein the irradiation optical system
15 further comprises a tubular space portion with a
diameter larger than that of the second baffle
portion, which is disposed between the beam
shaping member and the second baffle portion.

 4. The measuring device for
20 immunochromatography test piece according to
Claim 1, wherein the irradiation optical system
further comprises a tubular space portion with a
diameter larger than that of the third baffle
portion, which is disposed between the lens and
25 the third baffle portion.

 5. The measuring device for

immuno chromatography test piece according to Claim 1, wherein the irradiation optical system is mounted on an optical head, said optical head comprising:

5 a first member comprising a first hole portion, a second hole portion, a third hole portion, a fourth hole portion, and a fifth hole portion continuously formed, wherein the first hole portion has a predetermined inside diameter
10 so as to function as said third baffle portion, the second hole portion has an inside diameter larger than that of the first hole portion, the third hole portion has an inside diameter larger than that of the second hole portion and allows
15 said lens to be inserted therein, the fourth hole portion has an inside diameter larger than that of the third hole portion, and the fifth hole portion has an inside diameter larger than that of the fourth hole portion;

20 a second member inserted in the fifth hole portion and comprising a sixth hole portion and a seventh hole portion continuously formed, wherein the sixth hole portion allows the semiconductor light emitting element to be inserted therein and
25 the seventh hole portion has a predetermined inside diameter so as to function as said first

baffle portion; and

a tubular member inserted in the fourth hole portion and having a predetermined inside diameter so that a one-end portion functions as
5 said second baffle portion,

wherein said lens is fixed by the tubular member and a step portion formed at a border portion between the second hole portion and the third hole portion, and

10 wherein the beam shaping member is fixed by the second member and a step portion formed at a border portion between the fourth hole portion and the fifth hole portion.

6. The measuring device for
15 immunochromatography test piece according to Claim 5, wherein in the second member, an eighth hole portion having an inside diameter larger than that of the seventh hole portion is formed so as to be continuous with the seventh hole
20 portion.

7. The measuring device for
immunochromatography test piece according to Claim 5, wherein said tubular member comprises an other-end portion having an inside diameter set
25 larger than the inside diameter of said one-end portion.

8. The measuring device for immunochromatography test piece according to Claim 5, wherein a female screw is threaded in each inside surface of the first hole portion, the seventh hole portion, and the one-end portion of the tubular member.

9. The measuring device for immunochromatography test piece according to Claim 1, further comprising:

an optical head on which the irradiation optical system and the detection optical system are mounted;

a placing plate for placing of the immunochromatography test piece; and

a scanning mechanism for effecting relative movement between the placing plate and the optical head in a scan direction traversing the colored line.

10. The measuring device for immunochromatography test piece according to Claim 1, wherein the semiconductor light emitting element is a light emitting diode.

11. The measuring device for immunochromatography test piece according to Claim 1, wherein the beam shaping member is a platelike member in which a slit extending in a

direction substantially parallel to the colored line formed on the immunochromatography test piece is formed.

12. A light source device for irradiating slit light onto a measuring object, comprising:

a semiconductor light emitting element;

a beam shaping member for shaping light from the semiconductor light emitting element, into a slit beam;

a lens for focusing the beam from the beam shaping member on the measuring object;

a first baffle portion of tubular shape for removing stray light, which is disposed between the semiconductor light emitting element and the beam shaping member;

a second baffle portion of tubular shape for removing stray light, which is disposed between the beam shaping member and the lens; and

a third baffle portion of tubular shape for removing stray light, which is disposed between the lens and the measuring object.

13. The light source device according to Claim 12, further comprising a tubular space portion with a diameter larger than that of the first baffle portion, which is disposed between the first baffle portion and the beam shaping

member.

14. The light source device according to Claim 12, further comprising a tubular space portion with a diameter larger than that of the second baffle portion, which is disposed between the beam shaping member and the second baffle portion.

15. The light source device according to Claim 12, further comprising a tubular space portion with a diameter larger than that of the third baffle portion, which is disposed between the lens and the third baffle portion.

16. A measuring device for immunochromatography test piece, comprising:

15 a pedestal on which an immunochromatography test piece is placed;

an irradiation optical system for irradiating measurement light toward the pedestal; and

20 a detection optical system for detecting light incident from the pedestal side,

wherein the irradiation optical system and the detection optical system are arranged to move relative to the pedestal in a predetermined scan direction, and

25 wherein the irradiation optical system

comprises:

a semiconductor light emitting element;

a beam shaping member for shaping light from the semiconductor light emitting element, into a beam of a beam section extending in a direction crossing the predetermined scan direction;

a lens for focusing the beam from the beam shaping member;

a first baffle portion of tubular shape for removing stray light, which is disposed between the semiconductor light emitting element and the beam shaping member;

a second baffle portion of tubular shape for removing stray light, which is disposed between the beam shaping member and the lens; and

a third baffle portion of tubular shape for removing stray light, which is disposed between the lens and the pedestal.